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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,117	08/06/2003	Daniel E. Couto	GTC-207	2070
31904	7590 11/28/2005		EXAMINER	
GTC BIOTHERAPEUTICS, INC.			MONDESI, ROBERT B	
175 CROSSING BOULEVARD, SUITE 410 FRAMINGHAM, MA 01702		E 410	ART UNIT	PAPER NUMBER
	,		1653	
			DATE MAILED: 11/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer.	10/635,117	COUTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert B. Mondesi	1653				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 So	entember 2005					
,	action is non-final.					
3) Since this application is in condition for allower		secution as to the ments is				
closed in accordance with the practice under E	•					
Disposition of Claims						
• 4)⊠ Claim(s) <u>1-6 and 10-72</u> is/are pending in the a	nolication					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6 and 10-72</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement					
or claim(or are subject to rectinetion and/o	r ciocacii roquii ciii ciia					
Application Papers						
9) ☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acc	epted or b) \square objected to by the \square	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Di 5) Notice of Informal F	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,. , - /				

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 19, 2005 has been entered.

Status of the claims

Claims 1-6 and 10-72 are presently pending and under examination.

New Rejection(s)

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 and 10-72 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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Applicants have inserted the following limitation "greater than" in **claim 1 and 71**. As presently amended the claim states that the flux level is no longer maintained at a level ranging from about 5 to 100% of the transition flux but rather is now greater than 100% of transition point flux outside of the pressure dependent region. Even though the applicants have argued that this new limitation exists implicitly in the Data presented in the application, there is no direct factual bases for the "greater than" limitation. The Figure that the applicants have provided in the response section of the amendments filed June 20, 2005 and September 19, 2005 does not appear in any of the originally filed drawings and appears to have been created simply for the purposes of rebutting the prior rejection (The above New Matter issue is addressed below in the New Matter rejection paragraph). However, the examiner does see the point of the drawing and understands the applicants arguments but nonetheless presently stronger evidence in the from of Declarations is most likely required.

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The amendment to **claim 6** including the limitation "or constitutes particles greater than 0.1 um" is also considered to be new matter since there is no direct support for the mentioned limitation in the present application.

Claims 2-6 and 10-70 and 72 are included in this rejection because they are dependent claims that do not remedy the noted deficiencies.

Claims 22, 70 and 71 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 1 limits to molecular species of proteins but claim 22 adds RNA and DNA to these.

Claim 71 recites the limitation "said permeate" in 6. There is insufficient antecedent basis for this limitation in the claim.

Maintenance of rejection(s)

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

Claims 1-7, 9-10, 14-19, 20-54, 59-61 and 71 are rejected under 35

U.S.C. 102(b) as being anticipated by van Reis et al. United States Patent 5,256,294.

This rejection was explained in the Office action mailed December 16, 2004.

Claim Rejections - 35 USC § 103

Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over van Reis et al. United States Patent 5,256,294 in view of Kunihau et al.

This rejection was explained in the Office action mailed December 16, 2004.

Response to Applicants' Arguments

In regards to removal of the application from issue the applicants assert that the law does not allow for withdrawal of an application by the PTO after the issue fee has been paid.

In response the Examiner would like to point out that the application is withdrawn from issue after payment of the issue fee due to a mistake on the part of the Office.

action at the initiative of the Office.

According to rule CFR 1.313(b), applications may be withdrawn from issue for further

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The applicants assert that, it is important to point out that the original data remains the same from the filing of the specification. The chief differences with the prior art, and the apparent current difficulty is in the nature of the presentation of the data, not the data itself. The data show the optimal cross-flow rate, operating temperature, concentration factor, and the trans-membrane pressure (TMP) for the separation. Most importantly, the TMP was found to be optimal at approximately 15psig for the process described (Fig. 7), and as presented in the last response. This optimal psig would NECESSARLIY entail a transition point pressure for flux. Unfortunately, when the data were presented in this manner it did not clearly demonstrate the differences in operating conditions between the ones used by Van Reis and GTC. This was because the inventors presented their data on a graph in one way and van Reis another.

More importantly the applicants have stated that they will provide such Declarations from the Inventors for the examples/data points presented.

Applicants' arguments with regards to the above are not found persuasive since no Declarations have been filed in the present application. Applicants have had ample time to file a Declaration had they desired to do so. Furthermore it must be pointed out that attorney arguments presented as fact are not a substitute for expert opinion or data (in particular since the applicants are arguing form over substance); therefore it is important that applicants' provide expert opinion in regards to the above matter. This is extremely crucial because the figure that the applicants have relied up on to base their

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arguments from, "Diagram A" is not disclosed in the present application and only appears in the response section of amendment filed June 20, 2005 and September 19, 2005.

In regards to applicants assertions in view rejection of claims 35 U.S.C. 102(b) as being anticipated by van Reis et al., it must be pointed out that van Reis et al. teach transmembrane pressure at 15.7, 14.8, and 16.6 psi (Column 21, lines 12, 24 and 40) and that the flux may be held at a level greater than about 100% of transition point flux (column 13, line12 and line 28)

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert B. Mondesi whose telephone number is 571-272-0956. The examiner can normally be reached on 9am-5pm, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Robert B. Mondesi

11-21-05

PRIMARY EXAMINER

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